

INTRODUCTIONS:

This product adopts high frequency technologic , with the intelligence control of MCU . Compared with the old products, it's more quickly and precision. What's more, we enhanced the stability and reliability of this machine greatly .That's our perfect product-NEW LITTLE ANGEL



ITEMS	SPECIFICATION	COMMENTS
CAPACITY		
Power in VA	500	
Power in watts	300	
Output power factor	0.6	
INPUT		
*Input voltage		
Nominal voltage	220Vrms	Sine wave, 50Hz THD<3%
Input voltage range	165 ~ 275±7Vrms	
Nominal restart voltage range	175 ~ 265±7Vrms	
Line boost voltage range	175 ~ 210±7Vrms	
Line boost voltage back range	165 ~ 200±7Vrms	
Line buck voltage range	240 ~ 275±7Vrms	
Line buck voltage back range	230 ~ 265±7Vrms	
Line low detection	165±7Vrms	
Line low come back	175±7Vrms	
Line high detection	275±7Vrms	
Line high come back	265±7Vrms	
*Input current		
Nominal RMS current	2.5A	V*A/V-nominal I/P.V=220V
Max. RMS current	4.0A	
*Input frequency		
Nominal frequency	50Hz	Don't transfer battery mode for line frequency is abnormal
*Input protection	4.0A AC FUSE	
OUTPUT		
*Wave form		
Line mode	Sine wave	
Battery mode	Step wave	
*Output voltage range		
Nominal voltage	220Vrms	
Line mode	190 ~ 240±7Vrms	100% SPS load
Battery mode	220Vrms±10%	
Battery mode peak voltage	<400V	On transfer, load take off
Transient response(load take on)	≤150ms	100% RCD load (2uF/w)
*Output frequency range		
Battery mode	50±1Hz	
Line mode	Same as input frequency	

ITEMS	SPECIFICATION	COMMENTS
*Efficiency		
Line mode	≥90%	100% SPS load , battery full charged
Battery mode	≥85%	100% SPS load or R load
*Short-circuit protection		
Line mode	4.0A AC FUSE	Burn fuse in line
Battery mode	≤ 3 cycles fault	Protect self in battery
BATTERY		
*nominal voltage	12Vdc	
*Back-up time		
50% SPS load	≥7minutes	Battery full charged
100% SPS load	≥2minutes	Battery full charged
*Battery leakage current		
Switch off	0.8mA max.	Line off
*Protection		
Battery protection	40A/32Vdc fuse	Fast acting fuse
Pre-alarm level	11+T× 0.15V Vdc	≥1 minute to shutdown, T: backup time
Minimum battery level (end of autonomy)	10+T× 0.15Vdc	T: backup time, UPS shutdown
*Deep discharge prevention		
Deep discharge prevention	Maximum backup time 30min	UPS shutdown
Battery weak	<12± 0.5Vdc	Line fail: shutdown after 10sec. Line ok: transfer line directly
Battery fault	<9Vdc	
*Charger		
Voltage range	13.7±0.3Vdc	
Recharge time	10 hours max. (I/P.V=220V)	100%SPS load discharged and recharge battery to required back-up time

ITEMS	SPECIFICATION	COMMENTS
*Display and audible alarm		
*Green LED		
Steady	Line normal	
Blinking 1/ 4sec.	Battery mode	Normal battery voltage
Blinking 1/ 1sec.	Battery voltage low	Battery mode
*Red LED		
Steady	Fault	
Blinking 1/ 2sec.	Battery weak	Line mode, blinking for 30sec.
Blinking 3/ 2sec.	Battery fault	Line mode, Vbat<9V
*Buzzer		
Steady	Fault	
Buzzing 1/ 4sec.	Battery mode	Normal battery voltage
Buzzing 1/ 1sec.	Battery voltage low	Battery mode
Buzzing 1/ 2sec.	Battery weak	Line mode, buzzing for 30sec.
Buzzing 3/ 2sec.	Battery fault	Line mode, Vbat<9 V
TRANSFER TIME		
Line mode → battery mode	10 ms max.	100% R load or 50%SPS load
Battery mode → line mode	10 ms max.	100% R load or 50%SPS load
ENVIRONMENT		
*Temperature		
Storage	-15 ~ 50	
Operation	0 ~ 40	
*Humidity		
Storage	10% ~ 90% RH	
Operation	20% ~ 90% RH	Non-condensing
STANDARDS		
*Audible Noise		
Line mode	40dB max.	Buzzer not included
Battery mode	45dB max.	Rated SPS load
Withstanding voltage	2200Vdc	≤5mA, 3sec.

ITEMS	SPECIFICATION	COMMENTS
*EMI		
En50091-2	Class - A	
*EMC		
IEC 61000-4-2(ESD)	Level - 4	WFF: without function failure
IEC 61000-4-3(RS)	Level - 3	
IEC 61000-4-4(EFT)	Level - 4	
IEC 61000-4-5(Lighting surge)	Level - 4	
TRANSPORTATION		
Drop test	Mechanical test rule	
Vibration test	Mechanical test rule	